

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## Patent Application Transmittal



Mail Stop Patent Application  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing is the Patent Application of:

Inventor: Robert Joseph Bestgen et al.

For: OUTER AND EXCEPTION JOIN TO INNER JOIN NORMALIZATION

**ASSIGNEE NAME: INTERNATIONAL BUSINESS MACHINES CORPORATION**

**ASSIGNEE RESIDENCE: ARMONK, NEW YORK**

Enclosed are:

- ☒ 31 Pages of Specification and 1 Abstract
- ☒ 10 Sheets of Drawings
- ☒ A Declaration and Power of Attorney
- ☒ An Information Disclosure Statement and form PTO/SB/08A
- ☐ A certified copy of foreign application
- ☒ An Assignment of the invention to International Business Machines Corporation, Armonk, New York 10504

The filing fee has been calculated as follows:

For:	No. Filed	No. Extra
Basic Fee		
Total Claims	29 -20 =	9
Indep. Claims	4 -3 =	1
<input type="checkbox"/> Multiple Dependent Claim Presented		

Other Than Small Entity

Rate	Fee
	\$ 770.00
x \$18.00=	\$ 162.00
x \$86.00=	\$ 86.00
\$290.00	\$ 00.00
<b>TOTAL</b>	<b>\$1,018.00</b>

**EXPRESS MAIL CERTIFICATE**

Express Mail Label No.: ET747048359US

Date: October 16, 2003

I hereby certify that I am depositing the enclosed or attached paper with the U.S. Postal Service "Express Mail Post Office to Addressee" service on the above date, addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*Debra A. Peterson*  
 Debra A. Peterson

Patent Application Transmittal

Attorney Docket No. ROC920030142US1

Deposit Account Authorization:

- ☒ Please charge Deposit Account No. 09-0465 in the amount of **\$1,018.00**. A duplicate copy of this sheet is enclosed.
- ☒ The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account 09-0465. A duplicate copy of this sheet is enclosed.
- ☒ Any additional filing fees required under 37 C.F.R. §1.16.
- ☒ Any patent application processing fees under 37 C.F.R. §1.17.

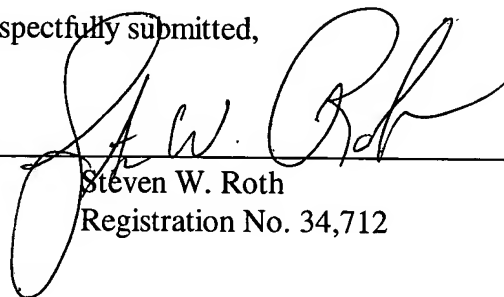
Date: October 16, 2003

IBM Corporation  
Intellectual Property Law, Dept. 917  
3605 Highway 52 North  
Rochester, MN 55901

(507) 253-1600 voice  
(507) 253-2382 fax

Respectfully submitted,

By



Steven W. Roth  
Registration No. 34,712